VOLUME CONTENTS

Number 1

Editorial iii
Countries Represented in the Directory v
Key to Notation Used in Tabulated Product Data vi

Tabulated Product Data:
1. Gas–gas heat recovery equipment 1
2. Gas–liquid heat recovery equipment 15
3. Liquid–liquid heat recovery equipment 25
4. Liquid–gas heat recovery equipment 31
5. Power recovery 33
6. Heat pumps 35
7. Miscellaneous heat recovery systems/services 43

Alphabetical List of Product Suppliers 51

Number 2

M. A. R. EISA and F. A. HOLLAND 107 A study of the optimum interaction between the working fluid and the absorbent in absorption heat pump systems

SHOU-SHING HSIEH, CHIHNG-TSUNG LIAUH and ANTHONY C. KU 119 Heat transfer coefficients of double pipe heat exchanger with helical type roughened surface

R. ANGULO, J. GONZALEZ and L. LAM 129 Developments in geothermal energy in Mexico —Part ten: Solar evaporation applied to chemical recovery from Cerro Prieto I brines

R. S. BENIWAL, R. SINGH, R. N. PANDE, D. R. CHAUDHARY and P. V. BAKORE 139 Thermal performance of solar ponds under different soil conditions

B. M. GIBBS 151 Boiler fuel savings by heat recovery and reduced standby losses

S. GHOSH, S. DEVOTTA and V. S. PATWARDHAN 159 The economics of heat pump systems for simultaneous heating and cooling

R. BEST, M. A. R. EISA and F. A. HOLLAND 167 Thermodynamic design data for absorption heat pump systems operating on ammonia–water—Part I. Cooling

R. BEST, M. A. R. EISA and F. A. HOLLAND 177 Thermodynamic design data for absorption heat pump systems operating on ammonia–water—Part II. Heating

R. BEST, M. A. R. EISA and F. A. HOLLAND — 187 Thermodynamic design data for absorption heat pump systems operating on ammonia–water—Part III. Simultaneous cooling and heating

News Item

195 Heat pipes applied to cooling telephone exchanges by IRD

Book Reviews

D. A. REAY — 199 Fluid Control & Measurement

P. A. KEW — 199 Renewable Energy Technologies—Their Applications in Developing Countries

200 Solar Passive Building—Science & Design

201 Energy for Rural & Island Communities IV

201 Solar Energy Prospect in the Arab World

I Software Survey Section

Number 3

S. B. RIFFAT, J. R. KNIGHT and J. R. SKELTON — 203 A vapour re-compression heat pump using liquidised $CaCl_2/H_2O/NH_3$ and $CaCl_2$/NaSCN/NH_3 systems for thermochemical energy storage

M. A. R. EISA, S. SUPRANTO, S. DEVOTTA and F. A. HOLLAND — 213 Derived thermodynamic design data for heat pump systems operating on R40

M. A. R. EISA, S. SUPRANTO, S. DEVOTTA and F. A. HOLLAND — 217 Derived thermodynamic design data for heat pump systems operating on R504

M. BALAKUMAR, S. SRINIVASA MURTHY, M. V. KRISHNA MURTHY and M. V. C. SASTRI — 221 Thermodynamic analysis of metal hydride-vapour compression hybrid systems

F. SANCHEZ, M. A. ACEVEDO and M. R. DE SANTIAGO — 231 Developments in geothermal energy in Mexico—XI. Two phase flow and the sizing of pipelines using the FLUDOF computer programme

D. NIEVA and R. NIEVA — 243 Developments in geothermal energy in Mexico—XII. A cationic geothermometer for prospecting of geothermal resources

R. BEST, M. A. R. EISA and F. A. HOLLAND — 259 Thermodynamic design data for absorption heat transformers—III. Operating on ammonia–water

A. MAÑON, F. BERMEJO and P. PEREZ — 273 Developments in geothermal energy in Mexico—XIII. The operation of surface equipment for geothermal fluid conduction at Cerro Prieto I

M. KARAGIORGAS and F. MEUNIER — 285 The dynamics of a solid-adsorption heat pump connected with outside heat sources of finite capacity

Announcement

301 The Electricity Council—Beta Awards for energy efficiency buildings in the U.K.

I Software Survey Section

i New Patents

Number 4

M. A. R. EISA, S. SUPRANTO, S. DEVOTTA and F. A. HOLLAND — 303 Derived thermodynamic design data for heat pump systems operating on R152a

M. A. R. EISA, S. SUPRANTO, S. DEVOTTA and F. A. HOLLAND — 307 Derived thermodynamic design data for heat pump systems operating on R13B1

T. F. SALAM and B. M. GIBBS — 311 Multiple fluidized-bed heat recovery: an investigation

S. RÖSLER, M. TAKUMA, M. GROLL and S. MAEZAWA — 319 Heat transfer limitation in a vertical annular closed two-phase thermosyphon with small fill rates

P. A. PILAVACHI — 329 Energy conservation R&D in industry

S.-I. GUSTAFSSON, B. G. KARLSSON and B. H. SJÖHOLM — 337 Differential rates for district heating and the influence on the optimal retrofit strategy for multi-family buildings

E. AZAD, F. BAHAR and F. MOZTARZADEH — 343 Solar water heater using gravity-assisted heat pipe

E. AZAD and B. M. GIBBS — 351 Analysis of air-to-water heat pipe heat exchanger

K. P. TYAGI — 359 Ammonia binary cycle with dry cooling for power plants

S. MERCADO, F. J. BERMEJO and H. FERNANDEZ — 365 Developments in geothermal energy in Mexico —XIV. Environmental aspects of geothermal systems

S. E. ALY — 375 Gas turbine waste heat recovery distillation system

R. WERNER — 383 Compatibility of organic latent heat storage materials and plastic container materials

D. HEINE — 389 Corrosion behaviour of steels in contact with salt eutectics as latent heat storage materials

	I	Software Survey Section
	i	New Patents

Number 5

V. S. PATWARDHAN	395	Condensation of saturated vapours on isentropic compression: a simple criterion
R. MASTRULLO and P. MAZZEI	401	Exergetic analysis of compound mechanical refrigeration systems
B. HOLLAND	413	The use of heat recovery equipment in desert environments
K. P. TYAGI	423	Aqua–ammonia heat transformers
V. R. PATWARDHAN and V. S. PATWARDHAN	435	A simplified procedure for the estimation of $(COP)_R$ for heat pumps
M. A. DOHEIM, S. A. SAYED and O. A. HAMED	441	Analysis of waste heat and its recovery in a cement factory
S. E. ALY	445	Diesel engine waste heat power cycle
A. GUTIERREZ and J. KUBIAK	453	Developments in geothermal energy in Mexico —XV. Differences between geothermal and conventional steam turbines
		Announcement
	463	International Symposium on Phase Change Heat Transfer
	i	New Patents
	I	Software Survey Section

Number 6

V. H. MORCOS	465	Refuse-fired, pressurized, fluidized-bed combustion combined cycle analysis
V. H. MORCOS	473	The overall efficiencies of low-grade energy Rankine-cycle engines as functions of their performance factors
H. M. SHAFEY and V. H. MORCOS	481	Design and performance analysis of a solar pond power plant
R. S. BENIWAL and R. SINGH	497	Calculation of thermal efficiency of salt gradient solar ponds

P. CIAMBELLI and V. TUFANO 517 The upgrading of waste heat by means of water–sulphuric acid absorption heat transformers

I Software Survey Section

i Volume Contents and Author Index, Volume 7, 1987